City of Biggs MEMORANDUM

TO: Honorable Mayor and City Council Members

FROM: G. Michael Vasquez, PE – Engineering Staff

DATE: January 24, 2011 Council Meeting, prepared January 17, 2011

SUBJECT: Activity Report & Project Updates

Activity Report:

- Staff continues to regularly prepare and submit reimbursement requests to the State and USDA for ongoing projects. (G. M. Vasquez, M. Powell)
- The State does not have any update on review or award of the 2010 CDBG funding application that Staff submitted last year. The funding award announcement was expected in late September 2010. Staff will monitor this application and keep the Council updated with any news. (G. M. Vasquez)
- Staff met with the Public Works Committee on January 10, 2010 to review ongoing projects. (D. Swartz)
- The water pressure increase plan approved by the Public Works Committee on December 8, 2010, commenced during the week of December 13, 2010 where the telemetry at both wells was adjusted to increase water system pressure to 50 psi. Public Works Staff has taken pressure readings at 8 different strategic locations throughout the City with reading remaining constant at 50-51 psi. The water system seems to have taken the pressure increase quite well and Public Works Staff will coordinate to increase water pressure to 55 psi later this month and continuing monitoring. (G. M. Vasquez)
- Staff worked with PMC to research the City's Truck Routes. (G. M Vasquez)
- Staff attended a City Staff meeting on January 6, 2011. (G. M. Vasquez)

Project Updates:

• **Project:** 6th Street Bridge Rehabilitation – New Box Culvert

Status: PMC received a list of environmental studies that will be required to be completed prior to beginning construction. Staff received a proposal from PMC to prepare the studies and is coordinating with Caltrans for the City to receive additional funding to prepare the studies. Caltrans has indicated that the grant the City received will be increased to allow for the additional study expenditures. Staff expects confirmation from Caltrans for the additional funding within 30-45 days. PMC will be authorized to proceed with their work once the additional funding is formally approved by Caltrans.

The project is on schedule pursuant to the schedule provided to the Council at the November 2010 Council Meeting.

Staff: G. M. Vasquez

City of Biggs

MEMORANDUM

TO: Honorable Mayor and City Council Members

FROM: David L. Swartz, PE, PLS - City Engineer

January 24th 2011 Council Meeting, prepared January 18, 2011 DATE:

SUBJECT: WWTP Phasing Update

Project: Waste Water Treatment Plant Upgrade

Requested Action: 1.) Authorize up to \$84,720 to Psomas for Conducting a MUN Use Attainability Analysis for Lateral K, Main Drainage Canal, and Cherokee Canal and Facilitating the States Basin Plan Amendment Process to De-designate the MUN Beneficial Use for these Drains.

2...) Authorize a revised USDA application be submitted which scopes the project to just over half the original application amount. It's estimated at the time of this memo that the application re-submittal will be approximately \$5M. I will probably have the final totals to report at the city council meeting as we are working out the logistics of breaking out the absolutes from necessary from preventative items.

Status:

At the last city council meeting we reported to council that USDA had requested we reduce the work scope and funding request by about \$3M down from \$9M to not more than \$6M. Subsequently, the city contracted with Psomas for \$2000 to break out the project into phases for consideration at the public works committee meeting, which was held on January 10th.

Prior to the meeting Psomas competed their breakdown and alternatives analysis, which was then discussed at the PW committee meeting. Succinctly, the Project could be separated into two projects, two different ways. The results for breaking the project down are summarized as follows:

Alternative #1 - Includes the aforementioned MUN study, and addresses the discharge violations of constituents out of compliance, i.e. ammonia, coli form, and peak flow. Under this work scope items the existing aerators would be replaced, conversion of one of the ponds to an equalization basin, enhancements to the existing chlorine contact basin, remodel and addition to the laboratory and office, upgrading some of the electrical and modifying the Basin Plan to remove the MUN designation and a new headwork's. The cost at the time this was discussed during the PW committee meeting was about 3.7 M.

Alternative # 2 – would basically build the treatment plant has it was reported in the WWTP facilities plan and phase improvements to address the above mentioned list. The cost at the time this was discussed for Phase II was 4.7M dollars.

After careful consideration it was recommended to move forward independently with the MUN Study as there are both short and long term benefits to removing this designation regardless of treatment plant upgrades.

Secondly, it was also recommended to move forward and update the USDA WWTP application choosing alternative No. 1, as it addresses a targeted approach to upgrading the treatment plant, and yet, does not commit the city to an isolated technology currently, thus limiting our ability to use improved performance and technology in the future with other permit upgrades.

Since the PW committee meeting we have received an updated breakdown of costs by Psomas on the critical, non critical, and preventative items which is under consideration by staff at the current time. This breakdown will be discussed at the next available PW committee meeting, and the final totals will be applied and then updated with the application.

The reports, updates, and analysis are attached hereto.

Staff: D. Swartz

Balancing the Natural and Built Environment

December 21, 2010

Pete Carr City of Biggs P.O. Box 307 Biggs, CA 95917

Gentlemen:

The City of Biggs has requested the porposed Wastewater Treatment Plant (WWTP) Activated Sludge Process to be split into two alternatives, each with two phases. The phases are based upon the selected alternative of a Biolac Secondary Process system form the March 2009 "City of Biggs Wastewater Treatment Plant Planning Activity Study" conducted by Psomas. The following is a brief overview of each phase and the cost of each phase. Additionally, we have developed two alternatives, each with two phases. Each phase is a stand alone project.

Alternative 1:

Phase 1 is to comply with the existing Regional Water Quality Control Board (RWQCB) permit discharge requirements and upgrade the plant to function at a higher efficiency. The WWTP currently discharges into an agricultural drain, Lateral K which is designated as Municipal (MUN). Part of Phase 1 is to go through the process of a Basin Plan Amendment to de-designate MUN from Lateral K in order for the WWTP to continue discharging into the agricultural drain.

A Best Practicable Treatment and Control Study was conducted by Psomas which indicates the following discharge constituents were out of compliance with the discharge permit, ammonia, coliform, and peak flow. Additional aerators as well as modifying the existing basin aerators will help the City achieve the ammonia levels needed in the interim. An equalization basin shall be installed in the Ballast Pond to divert/hold flow during peak flow events. The existing chlorine contact basin does not meet the State standard of a chlorine contact time of 90 minutes. Modifications to the chlorine basin as well as a new storage facility with new chlorination/dechlorination equipment shall be installed in Phase 1.

In addition, Alternative 1 – Phase 1 will include the following elements of the Biolac project:

- Influent Pump Station
- Headworks

1075 Creekside Ridge Dr. Suite 200 Roseville, CA 95678

PSOMAS

City of Biggs
Page 2 of 3
December 21, 2010
Biggs Wastewater Treatment Plant Upgrades

- Modifications to the existing Control Building
- Internal recycle pump station
- Sludge Drying Beds
- Chlorine Contact Chambe modifications

Phase 2 will include addional items from the Biolac project.

- Biolac Reactors
- Blower Enclosure
- Convert Pond 1 to EQ
- Clarifier
- RAS Pump Station
- Aerobic Digester
- Yard Piping
- Electrical
- Misc. Items

Alternative 2:

Alternative 2 will not include the Beneficial Use Study, nor the BPTC Study, but will break the Biolac project into two phases.

Phase 1

- Influent PS
- Headworks
- EQ
- Biolac Reactors
- Blower Enclosure
- Sludge Drying Beds
- Chlorination
- Yard Piping
- Electrical
- Misc.

Phase 2

- Clarifier
- RAS Pump Station
- Aerobic Digester
- Filtration

PSOMAS

City of Biggs
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Biggs Wastewater Treatment Plant Upgrades

- Diesel Generator
- Electrical
- Control Building Modification
- Misc

Our recommendation is to proceed with Alternative 1. If the Beneficial Uses (MUN) study is successful, Phase 2 may not be necessary or may only be necessary with new growth. In which case, developers can be responsible for the costs of Phase 2.

Sincerely,

PSOMAS

Michael G. Thalhamer, P.E.

Project Manager

MGT:ast Enclosures

cc: Dave Swartz - CEC

1 Submit Final Beneficial Uses Study to RWQCB

Request for a Basin Plan Amendment to de-designate Lateral K as MUN.

De-designation will allow the WWTP to continue discharge into the lateral and not require land disposal

Cost:

\$70,000

2 Best Practicable Treatment or Control (BPTC)

As stated in the May 2009 BPTC Study, the following items are required upgrades by the City to comply with the current discharge permit.

- a. Flow Control needed to manage TSS and Ammonia controls as well as to divert/hold flow during peak flow events in an emergency event (power outage).
 - Use Ballast Pond lined with HDPE as EQ basin
 - Provide a new flow splitter box with a V-notch weir and broad crested weir
 - Provide Ultrasonic flow meter post V-notch weir
 - Provide ultrasonic flow meter within new EQ basin
 - Route piping from equalization basin to Recycle pump
 - Route Recycle pump piping to Pond #1
 - Modify existing recycle pump station
 - Dewater and sludge removeal from Ballast Pond (Pond #3)
 - Two new 7.5 hp floating aerators

Cost: Demoltion	\$1,500
Site Construction	\$145,000
Equipment Costs	\$56,000
Miscellaneous	\$60,000
Total	\$262,500

- b. Ammonia Control needed to meet next permit requirements of 2.7mg/L
 - Reconfigure existing three 7.5 hp aerators
 - Install five new 10 hp surface aerators
 - Install new DO sensor and recorder

Cost:	Demoltion	N/A
	Site Construction	\$6,500
	Equipment Costs	\$170,000
	Miscellaneous	\$55,000
	Electrical	\$50,000
	Total	\$281,500

- c. Coliform Treatment Increase CCT to 90 min to meet discharge requirements
 - Modify existing dechlorination chamber to expand chloring contact chamber
 - Provide additional concrete baffle walls in serpentine section of chlorination chamber
 - Provide perpendicular side concrete walls along baffle walls at hinge point of basin
 - Construct new discharge outlet for disinfected effluent

Cost: Demoltion	\$10,000
Site Construction	\$150,000
Equipment Costs	NA
Miscellaneous .	\$75,000
Electrical	\$50,000
Total	\$285,000

3 Upgrade Pump Station and Headworks

Exisiting treatment plant does not screen toilet paper and rags and may become an issue in the proposed EQ basin

Exisitng flow meter is in good condition as well as influent sampling box installed in 2002 and will be kept

Mechanical spiral screen along with centralized washing station

New Parshall flume - existing is abandoned

Standby bar screens in adjacent channel for collecting inorganic materials

\$32,400
\$58,700
\$5,000
\$550,000
\$50,000
\$696,100

4 Modifications to Exterior Control Building

Cost: Modifications	\$250,000
Total	\$250,000

5 Recycle Pump Station

Cost: Recycle Pump Station	\$150,000
Electrical	\$25,000
Total	\$175,000

6 Sludge Drying Beds

Cost: Sludge Drying Beds	\$55,000
Total	\$55,000

SUBTOTAL	\$2,075,100
SUBTOTAL	42,010

Mobilization & Demobilization (10%)	\$207,510
Contractor Overhead & Profit (20%)	\$415,020
Contingency (22%)	\$456,522
Probable Construction Cost	\$3,154,152
Engineering & Construction Management (20%)	\$630,830
Total	\$3,784,982

TOTAL \$3,784,982 PHASE 1

BIGGS WASTEWATER TREATMENT PLANT UPGRADES - ALTERNATIVE 1, PHASE 2

Biolac Reactors	\$650,000
Blower Enclosure	\$450,000
Clarifier	\$285,000
RAS PS	\$75,000
Aerobic Digester	\$180,000
Yard Piping	\$110,000
Electrical	\$500,000
Miscellaneous Items	\$200,000
Subtotal	\$2,450,000
Mobilization & Demobilization (10%)	\$245,000

	Contractor Overhead & Profit (20%)	\$490,000
	Contingency (22%)	\$539,000
	Probable Construction Cost	\$3,724,000
	Engineering & Construction Management (20%)	\$744,800
TOTAL	\$4,468,800 PHASE 2	

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Comparative Construction Costs for Alternative 2

Description	Phase 1	Phase 2
Headworks	\$646,103	
Equalization	\$140,247	
Biological Reactors	\$646,000	
Blower Enclosure	\$450,000	
Secondary Clarifier		\$285,004
RAS/WAS Pump Station		\$72,425
Aerobic Digester		\$177,130
Optional Tertiary Filtration		\$675,000
Sludge Drying Bed Modifications	\$52,467	
Chlorination	\$149,895	
Yard Piping	\$110,000	
Other Miscellaneous Work	\$75,000	\$75,000
Electrical and Instrumentation	\$300,000	\$300,000
Diesel Generator		\$100,000
Control Building Modification	-	\$150,000
SUBTOTAL	\$2,569,712	\$1,834,559
Mobilization and Demobilization (10%)	\$256,971	\$183,456
Contractors Overhead and Profit (20%)	\$513,942	\$366,912
Contingency (22%)	\$565,336	\$403,603
PROBABLE CONSTRUCTION COST	\$3,905,961	\$2,788,530
Engineering/Construction Administration (20%)	\$781,192	\$557,706
TOTAL PROBABLE PROJECT COST (rounded)	\$4,687,153	\$3,346,236
TOTAL PHASE 1 & 2		\$8,033,389



9888 Kent Street • Elk Grove, CA 95624 Phone: (916) 714-1801 • Fax: (916) 714-1804

January 12, 2011

DELIVERED BY EMAIL

Mr. Michael Thalhamer Psomas 1075 Creekside Ridge Dr., #200 Roseville, CA 95678

Re: Professional Services for Conducting a MUN Use Attainability Analysis for Lateral K, Main Drainage Canal, and Cherokee Canal and Facilitating the State's Basin Plan Amendment Process to Dedesignate the MUN Beneficial Use for these Drains

Dear Mr. Thalhamer:

Per your request, Robertson-Bryan, Inc. (RBI) is providing this scope of work and cost estimate for conducting a MUN Use Attainability Analysis (UAA) for Lateral K, Main Drainage Canal, and Cherokee Canal and facilitating the State's Basin Plan amendment process to dedesignate the Municipal and Domestic Supply (MUN) beneficial use for these constructed drains. As we discussed, by dedesignating the MUN use for the City of Bigg's (City) receiving waters (cited above), none of the drinking water MCLs or California Toxics Rule (CTR) criteria for the protection of human health via consumption of water and organisms would apply to the City's wastewater treatment plant (WWTP) discharge. Thus, the state MCLs for nitrate and nitrite, CTR criteria for trihalomethanes (e.g., chloroform, dibromochloromethane, dichlorobromomethane), and numerous other human health related MCLs, objectives, and criteria would no longer be applicable to the receiving waters and, therefore, would not be considered in issuing future NPDES permits for the City's WWTP. Hence, dedesignation of the MUN use from the above-cited constructed canals would save the City many millions of dollars in avoided upgrade costs for the City's WWTP that would otherwise be expended to upgrade the facility to comply with such human health standards.

The current NPDES permit for the City's WWTP states the following.

[p. 23.] "d. Beneficial Use Designation. The existing beneficial uses of Lateral K include agricultural supply and preservation and enhancement of fish, wildlife and other aquatic resources. Resolution No. 88-63, by its terms, designates all water bodies as have the municipal (MUN) beneficial use. Exceptions to Resolution No. 88-63 include surface waters in systems designed or modified for the primary purpose of conveying or holding agricultural drainage waters. The exemptions in Resolution No. 88-63 are not self-effectuating, and therefore may only be implemented through the rule-making process of a Basin Plan amendment. This Order contains a time-schedule (Provision VI Section C.7.b) for submittal of a beneficial use designation study."

Mr. Michael Thalhamer PSOMAS January 12, 2011 Page 2



[p. 30] "b. <u>Beneficial Use Designation Study</u>. The Discharger shall submit a work plan to evaluate 1) the existing beneficial uses of Lateral K, 2) investigate the previous (since November 28, 1975) and anticipated beneficial uses of Lateral K, 3) quality of water in Lateral K, and 4) quantity of water in Lateral K. The work plant must contain enough technical information for the Regional Board to process a Basin Plan amendment, to potentially remove the beneficial use of MUN from Lateral K."

In addition, the permit defined a schedule for the City to follow for completing the study.

PSOMAS prepared the work plan, conducted the study, and prepared a report consistent with the permit language above. The PSOMAS report adequately addressed the four specific requests cited on p. 30 of the permit. However, the permit language was not explicit enough to fully define all the information that would be needed for the Regional Water Board, Central Valley Region (Regional Water Board) State Water Resources Control Board (State Water Board), and U.S. Environmental Protection Agency (U.S. EPA) to approve a dedesignation of the MUN use for Lateral K. A Use Attainability Report (UAA) is needed, which would incorporate the information from the PSOMAS report, but would also address the other information needed by the Regional and State Water Boards and U.S. EPA to process a Basin Plan amendment that dedesignated the MUN use.

In addition, RBI recommends addressing the MUN use issue in the Main Drainage Canal and Cherokee Canal, in addition to Lateral K, in order to prevent simply shifting future MUN-related compliance issues associated with the wastewater treatment plant (WWTP) discharges from the point of discharge into Latter K to where Lateral K discharges into the Main Drainage Canal and where this canal dischargers into the Cherokee Canal. This will provide the greatest protection for the City.

Based on the work performed to date and the requirements of the State and U.S. EPA to dedesignate the MUN use, we recommend building off the past work in three subsequent phases. Phase I involves preparing a comprehensive work plan (which focuses on the logical next steps from the work completed to date) to be reviewed and approved by the Regional Water Board, basin planning staff, that would address this issue. Phase II involves preparation of a UAA report, which serves at the technical/evidentiary basis from which the State makes its basin planning dedesignation action. Phase III is led by Regional Water Board staff. In this phase, staff will prepare their "Staff Report" which serves as the primary document for the approval of the proposed MUN dedesignation for the drains. The actions taken to dedesignate MUN from the drains will be adopted by the Regional Water Board and then approved by the State Water Board, Office of Administrative Law (OAL), and the U.S. EPA.

The following section provides RBI's scope of work and budget for Phase I and II, as defined above.



I. SCOPE OF WORK

UAA SERVICES

As stated above, the first task is to prepare a work plan and submit to the regional Water Board staff for their review and approval. Following approval, the UAA will evaluate the MUN beneficial use designation consistent with the approach described in the work plan. The UAA will answer key questions that must be addressed before the MUN use can legally be dedesignated.

The following tasks define RBI's scope of work for preparing and obtaining approval of the work plan (Phase I) and completing a UAA and preparing the UAA report (Phase II) for the above-cited drains. The UAA will be a focused assessment to determine whether the MUN use is an existing or attainable use in the Lateral K, Main Drainage Canal, and Cherokee Canal drains. No other uses or water bodies will be evaluated. Any RBI services needed in support of Phase III of the process would be scoped and budgeted, upon request, at a later date.

TASK 1: PREPARE MUN DEDESIGNATION WORK PLAN

Under this task, RBI would prepare a detailed work plan to define and direct Phase II and Phase III activities needed to successfully dedesignate the MUN use from the drains. In addition, RBI staff will facilitate obtaining review and approval from the appropriate Regional Water Board staff prior to proceeding with work plan implementation. This is a critical initial step in the process that defines the full breadth of the project, Board staff's willingness to pursue the action, and the specifics of the process that Agency staff will demand. The outcome of this first task presents a "go"/no-go" decision for the City regarding the remainder of the dedesignation process. If the Regional Water Board a receptive to dedesignating MUN in the drains and agree to a reasonable process to do so, the City can proceed. If not, the City can stop here, with minimal expense and time commitment.

TASK 2: DEFINE PURPOSE, PHYSICAL CHARACTERISTICS, HYDROLOGY, AND SURROUNDING LAND USES OF DRAINS

Although the work under this Task is assumed to be completed by PSOMAS staff, it is presented here to show the step-wise process and various types of data/information needed for RBI to prepare a defensible UAA report.

Under this task, PSOMAS will collect and review available documentation, such as historical construction planning documents and agency approvals/agreements. PSOMAS will contact the City of Biggs, local irrigation districts, and other pertinent agencies to obtain documentation on the purpose of the drains and related information. Specifically, PSOMAS will prepare a Technical Memorandum that provides RBI with the following information.

Purpose for constructing the drains



- When and by whom the drains were constructed
- Parties responsible for operations and maintenance of the drains
- Description of historical and current physical characteristics of the drains, including system hydrology, source water inputs, and surrounding land uses
- Map of the drains from the City's WWTP to their confluence with Butte Creek. Other natural creeks/streams in the area, sources of inflows, approximate drainage areas, and land uses will be marked on the map.

The documentation will be compiled and provided in electronic format. The map will be prepared in AutoCAD and will be provided to RBI electronically as well. This information will be used, in part, to determine whether historic base flow conditions in the drain contributed by the watershed have been sufficient to allow the MUN use to occur since November 28, 1975. RBI will make use of this information in the UAA report and the PSOMAS TM will serve as an appendix to the UAA report.

TASK 3. DEFINE EXISTING AND ANTICIPATED FUTURE MUN USES OF DRAINS

The UAA will determine whether the MUN use has occurred within the drains since November 28, 1975, and whether such use is reasonably expected to occur in the future. Information obtained, as directed by the work plan, will be conducted and compiled to provide a factual basis upon which to determine whether the MUN use is occurring or has occurred since November 28, 1975. The findings from this evaluation will be presented in the UAA report with supporting documents in appendices, as necessary.

TASK 4. DEFINE WATER QUALITY CHARACTERISTICS OF DRAINS

Resolution No. 88-63 effectively states that storm water runoff does not represent a source water suitable for MUN use. Nevertheless, for the purpose of being thorough in the facts being disclosed in the UAA report, available water quality data for the drains will be compiled by PSOMAS staff. The discussion of water quality will be limited to available historical data on constituents of concern to human health and how the sources of water to the drains/surrounding land uses (see Task 2) affect the suitability of the water for MUN use. The findings from this evaluation will be presented in the UAA report with supporting documents in appendices, as necessary, and interpreted by RBI staff as part of its Task 6.

TASK 5. CEQA SCOPING MEETING

RBI and PSOMAS staff will prepare for and attend a single CEQA scoping meeting led by the Central Valley Regional Water Quality Control Board (Regional Water Board) staff, which is anticipated to be held in the City of Biggs.



TASK 6. UAA REPORT

RBI will prepare a UAA report that addresses the following elements:

- Introduction includes regulatory background, purpose and need, and scope of the UAA.
- Analysis Methodology describes the steps of the UAA
- Data Compilation describes the data sources for the UAA.
- Evaluation of MUN Attainability addresses all applicable regulatory requirements for determining whether MUN is existing or attainable in the drains.
- Conclusion concludes whether the MUN use is an existing or attainable use.

The draft and final UAA report will be prepared as follows.

Subtask 6a: Annotated Outline. Preparation of an annotated outline for the UAA report provides an opportunity for the City, PSOMAS, and Regional Water Board staff to provide input on the report's content prior to it being written, with the intent to minimize comments on the administrative draft and agency draft reports. RBI will prepare an annotated outline of the UAA report identifying the sections and content for the report. This outline will be submitted to the City and PSOMAS staff for review and comment. RBI will incorporate comments from the City and PSOMAS and prepare the annotated outline for submittal to the Regional Water Board. The comments received from the Regional Water Board will be incorporated and a final annotated outline distributed to the City, PSOMAS, and the Regional Water Board.

Subtask 6b: Administrative Draft Report. RBI will prepare and submit an administrative draft report to the City and PSOMAS for review and comment.

Subtask 6c: Agency Draft Report. RBI will prepare an agency draft report by addresses comments provided by the City and PSOMAS. This Agency draft will be submitted to the Regional Water Board, State Water Board, and U.S. EPA for review and comment.

Subtask 6d: Final Report. RBI will address two rounds of comments provided by the Regional Water Board, State Water Board, and U.S. EPA to prepare a final report for submittal to these agencies for their use in Phase III of the dedesignation process.

TASK 7. PROJECT MEETINGS

RBI will attend meetings or conference calls for this project as follows:

Subtask 7a: Internal Conference Calls/Meetings. RBI will participate in up to two (2) conference calls and one (1) meeting with PSOMAS and City staff to facilitate implementing the tasks defined herein.



Subtask 7b: Agency Meetings. RBI will prepare for and attend up to a total of two (2) meetings with the Regional Water Board, State Water Board, and EPA to facilitate implementation of the tasks defined herein and to coordinate development of the final UAA report. For the purposes of this scope and budget, six hours are assumed for each RBI staff to facilitate preparing for and attending each meeting.

TASK 8. PROJECT MANAGEMENT

Project management activities include coordination by phone and fax with other project team members, scheduling meeting times, reviewing work products, budget and schedule tracking, and other duties to coordinate/administer the project.

II. BUDGET, CONTRACT, AND BILLING ARRANGEMENTS

Attachment 1 provides RBI's budget for completing the above scope of work. RBI will invoice monthly according to the rates contained herein (Attachment 2) for all RBI work activities completed in the prior month.

This scope of work for each task is limited to the budget allocated for that task. In the event that unanticipated requests made/positions taken by Regional Water Board or other resource agency staff lead to a protracted process, and this budget allocation is insufficient to provide for RBI services needed to complete tasks 2-7 outlined herein, RBI would be pleased to submit a supplemental letter proposal, upon request by either PSOMAS or the City.

If you have any questions regarding this scope of work and budget, please do not hesitate to contact me at (916) 714-1802. We look forward to working with you on these additional studies.

Sincerely,

Robertson-Bryan, Inc.

Michael D. Bryan, Ph.D. Partner/Principal Scientist

Attachment 1: Budget

Attachment 2: RBI Fee Schedule

ATTACHMENT 1

BUDGET

	Robertson-Bryan, Inc.			Psomas				
	Principal	Senior	Scientist	Scientist	Admin	RBI		Task
	Scientist	Engineer I	П.	11	Assistant	Subtötäl	Sutotal	"Tōtāl "
PROFESSIONAL SERVICES				:			A Applear to artist the property of the party	sand, of Tribland Local members on
Task 1: Prepare Occessignation Project Work Plan	1	32		400010	4	\$ 9,030		\$ 49,030
Task 2. Drain Purpose: Conditions, Hydrology, and Surrounding Land Uses							\$ 10,000	\$ 10,000
Pask 3: Existing and Historical Drinking Water Uses	# 15 P 6	E E E E E E E E E E E E E E E E E E E	£44.16			\$ 6.950		\$ 6.950
Task 4: Drain Water Quality							S 5.000	\$ 5000
Task5: CEQA Scoping Meeting						\$ 1,760		\$ 1.760
eInsteft: UAA Report	蓝面能差			32/50	# Y2 F3	1 17 July 10 4 War 1404 - 18		\$ 35,830
6a. Annotated Outline	2	8		6		\$ 2,650		
6b. Administrative Draft Report	8	80	40	16	6	1 '		
6c. Agency Draft Report	4	8	4	4		\$ 3,460		
6d. Final Draft Report	4	16	inemporario por meta me	8	2	Lamper Contract To Book Committee	. 19/3176990 EXPERIMENT	Employed ETTER AND DESIGN
Task 7: Project Meetings		200		建的 相图		\$ 7540		\$ 7.540
7a. Internal Meetings (1 meeting, 2 conf. calls)	12	6				\$ 3,690		
7b. Agency Meetings (2)	12	6			1	\$ 3,850		
Task8: Project Management	量到第20	3/9/202	多数基础	941.98	通知性。	\$ 8410		\$ 8,410
Total Hours:	84	194	60	46	16			
Rate:	\$220.00	\$175.00	\$160.00	\$135.00	\$ 80.00			
Professional Services Subtotal:	\$18,480	\$ 33,950	\$ 9,600	\$ 6,210	\$ 1,280	\$ 69,520	\$ 15,000	\$ 84,520
DIRECT EXPENSES		4 5 5 6						
Milcage						S 200		
Direct Expenses Subtotal						\$ 200		
Consultant Subtota	Secretaria de la companya del companya del companya de la companya					\$ 69,720	\$ 15,000	5 84,720
TOTAL BUDGET								a 3 04,/20

ATTACHMENT 2



2011 FEE SCHEDULE

Charges for project work performed by Robertson-Bryan, Inc. (RBI) will be calculated and billed at the hourly rates shown below.

PROFESSIONAL SERVICES	RATE/HOUR
♦ Managing Partner	\$220.00
♦ Principal Engineer/Scientist	\$210.00
♦ Resource Director	\$195.00
Senior Engineer/Scientist III	\$190.00
♦ Senior Engineer/Scientist II	\$185.00
♦ Senior Engineer/Scientist I	\$175.00
♦ Project Engineer/Scientist III	\$165.00
♦ Project Engineer/Scientist II	\$160.00
♦ Project Engineer/Scientist I	\$145.00
♦ Staff Engineer/Scientist II	\$135.00
♦ Staff Engineer/Scientist I	\$130.00
♦ Technical Analyst	\$120.00
♦ Graphics/GIS	\$115.00
♦ Administrative Assistant	\$80.00
♦ Intern	\$55.00

Up to ten percent (10%) of subcontractor charges will be added to cover administrative costs. Hourly rates will be increased by a minimum of fifty percent (50%) for depositions, trials, and hearings.

INVOICING AND PAYMENTS

Invoices will be issued on a monthly basis for all work performed on a project. Payment is due upon receipt of the invoice.

Date:	Date:	10-Jan-11	MGT
Prepared by:	Reviewed by:		

CITY OF BIGGS WASTEWATER TREATMENT PLANT IMPROVEMENTS

ALTERNATIVE 1, PHASE 1

COST ESTIMATE

ITEM	Permit required	Critical	Non-critical
MUN study	\$85,000		
Aeration	\$282,000		
Equalization Basin	\$263,000		
Chlor basin	\$285,000		
Inlet pump station		\$446,000	
Headworks			\$250,000
Building improvements			\$250,000
Recycle pump station	\$175,000		
Drying beds			\$55,000
Total	\$1,090,000	\$446,000	\$555,000
	,		
Mob/demob(10%)	\$109,000	\$44,600	\$55,500
O&P(20%)	\$218,000.0	\$89,200.0	\$111,000.0
Contingency(22%)	\$239,800.00	\$98,120.00	\$122,100.00
Subtotal	\$1,656,800	026'229\$	\$843,600
Engineering(20%)	\$331,360	\$135,584	\$168,720
TOTAL	\$1,988,160	\$813,504	\$1,012,320

City of Biggs MEMORANDUM

TO: Honorable Mayor and City Council Members

FROM: G. Michael Vasquez, P.E. – Engineering Staff

DATE: January 24, 2011 City Council Meeting, Prepared January 17, 2011

SUBJECT: Family Park Hydro-Pneumatic Tank Project Closeout (Nor-Cal Pump and Well)

Requested Action:

Motion to accept completion of the Family Park Hydro-Pneumatic Tank Project.

Recommendation:

Approve the Resolution accepting the construction project's completion to allow Staff to close out the project by recording a notice of completion.

Financial Impact:

Construction Project accounting is as follows:

\$39,300.00 paid from the USDA Water Well Project \$67,548.21 paid from the City's Water Fund

\$106,848.21 total construction cost

Background:

Staff requests that the Family Park Hydro-Pneumatic Tank Project be accepted by Council as complete by resolution. The project's purpose was to install a pressure tank to minimize water hammering in the City's water system and to allow the City to increase water system pressure while also keeping consistent water system pressure throughout the City. The project consisted of installing a 10,000-gallon pressure vessel, concrete footings and slab, air compressor, water line and valves, and fencing.

Staff has inspected the project and found that the improvements constructed meet the minimum standards of the project's plans and City Standard Details and Specifications. Public Works Staff and the Contractor performed functionality testing and the project components are performing satisfactorily.

RESOLUTION NO. 2011-04

		Y COUNCIL OF THE CITY OF BIGGS ACCEPTING ILY PARK HYDRO-PNEUMATIC TANK PROJECT			
***	*************	***********			
BE	IT RESOLVED by the C	ity Council of the City of Biggs as follows:			
	WHEREAS, the City of Biggs requested that Nor-Cal Pump and Well Service furnish and install a 10,000-gallon hydro-pneumatic tank at the Family Park well site and				
WE	WHEREAS, the City used Water Fund and USDA funding to fund the project and				
WE	WHEREAS, Nor-Cal Pump and Well Service has completed the project and				
	IEREAS, City Staff has and specifications and	inspected the project and the project meets the intent of the			
		impletion must be accepted by the City Council before the a notice of completion and			
WH	IEREAS, the City of Bigg	s wishes to accept completion of this project.			
***	**********	*************			
and adopte	EREBY CERTIFY that d at a meeting of the City e following vote:	the foregoing RESOLUTION was duly introduced, passed y Council of the City of Biggs, held on the 24 th of January,			
AYES:	COUNCILMEMBER				
NOES:	COUNCILMEMBER				
ABSENT:	COUNCILMEMBER				
ABSTAIN:	: COUNCILMEMBER				
ATTEST:		APPROVED:			
Roben Dev		Roger Frith MAYOR			

City of Biggs MEMORANDUM

TO: Honorable Mayor and City Council Members

FROM: David L. Swartz, PE, PLS - City Engineer

DATE: January 24, 2011 Council Meeting, prepared January 18, 2011

SUBJECT: Community Hall Update

Project: Community Hall Funding Application

Requested Action: Continue with Application

Status: Staff has been working closely with the new USDA representative whom took Paulette Waugh's place, Katie Hammond, on this application and was recently invited to upgrade the application from pre application status to final application status. Staff is working to complete the final financing and loan documents from USDA and will have had a meeting by the time of City Council with USDA on Jan. 20th.

It was commented by USDA that the City should plan on receiving only Loan Money for this application (currently requesting \$467,000), which may have an impact on the Council's decision to move forward.

Staff: D. Swartz